Many problems in number theory are related to the question of whether or not there are any \( \mathbb{Q} \)-linear relations among the ordinates of the nontrivial zeros of automorphic \( L \)-functions. In general, this question is wide open. I will discuss recent progress on some special cases of this question. For instance, are the (non-real) zeros of an \( L \)-function simple? Given two \( L \)-functions, are their zeros distinct? Can an \( L \)-function simultaneously vanish at height \( t \) and height \( 2t \)? (Received September 20, 2016)